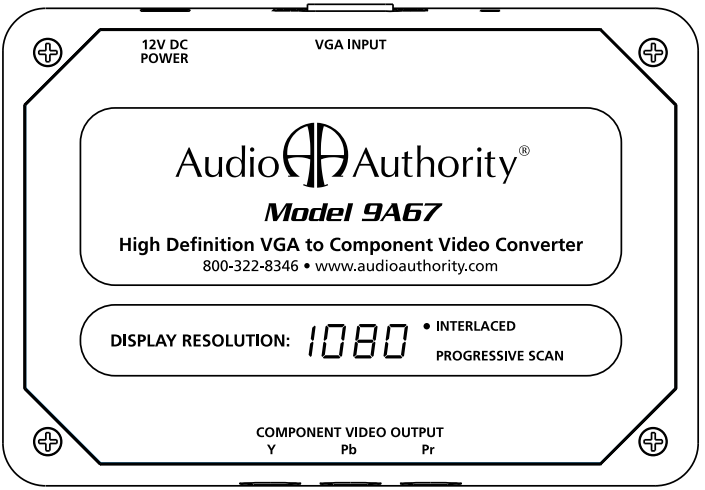
User Manual

Model 9A67

VGA (RGBHV) to
Component (YPbPr)
Video Signal Converter



Audio Authority®

Model 9A67

High Definition VGA (RGBHV) to Component (YPbPr) Video Signal Converter

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LIABILITY STATEMENT

Every effort has been made to ensure that this product is free of defects. Audio Authority cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

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1.0 INTRODUCTION

Thank you for purchasing this Model 9A67 VGA to Component Video Signal Converter from Audio Authority. This product is designed to convert RGBHV video sources to YPbPr Component video for use with HD television displays. With compatible sources and televisions, it permits video images generated by a set top box (STB) or personal computer to be displayed on an HDTV that is capable of displaying the image format being produced by the source. Audio Authority also offers an extensive line of audio and video switchers, converters, and distribution amps available for purchase online at www.audioauthority.com.

The 9A67 is not a format converter. It passes the horizontal and vertical synchronization timings and pixel content to its outputs without modification. For example, a 720p RGBHV source with a 9A67 will require your HDTV monitor to accept a 720p YPbPr component video input. Any resolution and refresh rate adjustments that are necessary for compatibility with the display device's inputs must be done in the source device.

Generally, Model 9A67 will enable any progressive-scan video source to be displayed on a video display designed to accept the source's video output format. However, some combinations of sources and televisions may produce undesired display artifacts, shifted image, or fail to work at all.

1.1 FEATURES

- Converts VGA (RGBHV) signals to component video (YPbPr)
- Supports 480p, 576p, 720p, 540p/1080i
- LED display indicates lines of resolution and video format
- Input: VGA on 15 pin connector (RGBHV)
- Output: Component Video on three RCA jacks (YPbPr)
- Physical Dimensions: 3.8 x 5.56 x 1.25 (HxWxD, inches)

2.0 CHECKING PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 9A67 video converter
- 12V DC power adapter
- User manual

Note: Please keep the original packing material in case the unit ever needs to be returned. If you find any items are missing, contact Audio Authority immediately. Have the serial number and invoice available for reference when you call.

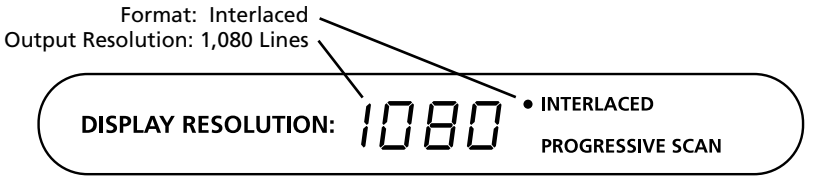
3.0 INSTALLATION

Connect the 9A67 to the video source using a VGA cable and apply power using the included 12 volt power pack. Connect the output of the 9A67 to the Component Video input jacks of the HDTV. Power up the system and check for a picture. If none appears on the HDTV set, turn off the power, then check and correct resolution/format compatibility before restarting the TV.

Caution: Do not operate the monitor for extended periods with an unstable picture – incompatible settings can cause damage to your display device.

3.1 OPERATION

The 9A67 continuously measures the number of horizontal lines per field (interlaced) or frame (progressive) and displays the format having the closest number of lines. HD formats are indicated as either interlaced or progressive. Inputs recognized as non-HD formats, such as those used for computer imaging, are displayed as



the number of lines, alternating with an "Err" message. A constant Err message indicates that the 9A67 format detector does not recognize the input format. If the format reported by the 9A67 is not one that your monitor or projector can display, you must change the format being output by the source.

3.2 HDTV-CAPABLE COMPUTERS

For viewing DVDs, use software such as PowerStrip or DisplayConfigX to set the output parameters of your computer's high-performance video card to an HDTV format acceptable to the HDTV set. A common format is 1280 x 720 @ 60Hz. For displaying normal PC video on HDTV sets for games and other PC applications, make sure the HDTV can accept the progressive-scan format of the source. Remember, HDTV sets that accept progressive (non-interlaced) video generally have a maximum vertical refresh rate of 60Hz; avoid sending higher rates from your PC or damage may result to your HDTV set.

4.0 TROUBLESHOOTING

- If no picture is visible make certain that the 9A67 is receiving power by looking at its LED display. It should always display something if its power supply is connected. If no picture appears, disconnect the 9A67 power and adjust the source to a compatible video format. ***Caution:*** Do not operate the TV for extended periods with an unstable picture – incompatible settings can cause damage to your HDTV set.
- A constant "Err" message indicates that the 9A67 format detector does not recognize the input format. An Err message alternating with the number of lines indicates the input signal is a non-HD format (e.g. a computer resolution). If the format reported by the 9A67 is not one that your HDTV set or projector can display, you must change the resolution and/or format being produced by the source.
- If your computer does not allow a resolution compatible with your display, you must install third party software such as Powerstrip (Windows®) or DisplayConfigX (Mac®). For more information on using computers with HD displays, download the article *The Best of Both Worlds: Viewing a PC on a TV* from audioauthority.com. Click RESIDENTIAL tab, then SUPPORT, and look under the Downloads section.

- Latptop computers are not recommended for use with the 9A67 because their graphics cards are not usually adequate to drive an HD display. It is recommended to use Model 1365 Mini-scaler instead of the 9A67 for laptop applications.
- If the picture on your display is not rendering black correctly, try adjusting the 9A67 horizontal sync output control. It is accessible with a thin screwdriver through a hole adjacent to the input connector. If no change is observed, restore the control to its full clockwise position.

If a problem still persists after trying the above suggestions, contact the Audio Authority Technical Service department via email: support @audioauthority.com, or call 800-322-8346 or 859-233-4599.

5.0 SPECIFICATIONS

Subject to change without notice

Input	RGBHV video on HDB-15 (VGA) connector
Video Resolutions Supported	480p, 576p, 720p, 540p/1080i
RGB Inputs	700mV p-p
HV Synchronization Inputs	5 volt TTL, positive or negative polarity
Output	YPbPr video (with sync on Y) on three color-coded RCA jacks
Color	Per SMPTE Standard 274M
YPbPr Video Output	0.7 volt p-p video with 0.3 volt negative sync
Horizontal sync output pulse width	Adjustable from .5 uSec to full input width
Dimensions	3.80” H x 5.56” W x 1.25” D
Accessories	12 volt regulated DC power supply, 100-240 VAC input, 50-60 Hz

6.0 LIMITED WARRANTY

Should any consumer product from Audio Authority fail due to defects in materials or workmanship within one year from the date of the original sale to the end-user, Audio Authority guarantees that we will replace the defective product at no cost. Freight charges for the replacement unit will be paid by Audio Authority (ground service only). A copy of the invoice showing the item number and date of purchase (proof-of-purchase) must be submitted with the defective unit to constitute a valid in-warranty claim.

Units that fail after the warranty period has expired may be returned to the factory for repair at a nominal charge, if not damaged beyond the point of repair. All freight charges for out-of-warranty returns for repair are the responsibility of the customer. Units returned for repair must have a Return Authorization Number assigned by the factory.

This is a limited warranty and is not applicable for products which, in our opinion, have been damaged, altered, abused, misused, or improperly installed. Audio Authority makes no other warranties either expressed or implied, including limitation warranties as to merchantability or fitness for a particular purpose. Additionally, there are no allowances or credits available for service work or installation performed in the field by the end user.

6.1 WARRANTY SERVICE PROCEDURES

If you suspect a product defect, contact Audio Authority's Technical Service Department at **800-322-8346** or **859-233-4599** for assistance in verifying the problem. If a defect or potential defect is suspected, a replacement unit will be shipped immediately on a defect-exchange basis and a Return Authorization number will be issued for the return of the defective product. Replacement units are sent out at the Manufacturer's Suggested Retail Price which is debited to the customer's credit card at the time of shipment. Once we receive the defective unit back at the factory, it will be evaluated under the conditions of this warranty and if found to be in-warranty, a full credit will be issued to the customer's credit card. Return freight charges for the defective unit are the customer's responsibility. Please contact our Technical Service Department for complete details concerning all in and out of warranty service matters.

We appreciate your confidence in our products and services and will always strive to meet or exceed your needs.

7.0 REGULATORY COMPLIANCE

The Power Adapter/Supply included with this unit has been tested for compliance with UL, CE and CSA rules and regulations and is RoHS compliant.

8.0 CONTACT INFORMATION

If you have questions or require assistance with this product in areas not covered by this manual, please contact Audio Authority using the information below.

Audio Authority Technical Service
800-322-8346 M-F 8:30 AM to 5:00 PM, EST
International: 859-233-4599 Fax: 859-233-4510
Send email to: support@audioauthority.com

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